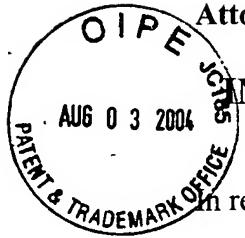


JFW/IFW
PATENT**Attorney Docket No. IMMR-107/03US****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of Louis B. ROSENBERG et al.

Serial No.: 10/615,986

Examiner: Unassigned

Confirmation No.: 1236

Art Unit: 2182

Filed: July 10, 2003

For: **HAPTIC FEEDBACK FOR TOUCHPADS AND OTHER TOUCH CONTROLS**

U.S. Patent and Trademark Office
 220 20th Street South
 Customer Window
 Crystal Plaza Two, Lobby, Room 1B03
 Arlington, Virginia 22202

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- In accordance with 37 C.F.R. §1.97(c), also enclosed is:
 - the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
 - a statement as specified in 37 C.F.R. §1.97(e).
- In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- Check No. ____ in the amount of \$____ for the total fee is attached.
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- Please charge \$____ to Deposit Account No. (RE) 50-1283 for the total fee. This paper is being submitted in duplicate.

Attorney Docket No. IMMR107/03US
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Page 2

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. (RE) 50-1283.

Dated: August 3, 2004

Cooley Godward LLP
ATTN: Patent Group
One Freedom Square
Reston Town Center
11951 Freedom Drive
Reston, VA 20190-5656
Tel: (703) 456-8000
Fax: (703) 456-8100

By:

Respectfully submitted,
COOLEY GODWARD LLP



Erik B. Milch

Reg. No. 42,887

185468 v1/RE
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Attorney Docket No. IMMR-107/03US

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**INFORMATION DISCLOSURE STATEMENT
 UNDER 37 C.F.R. §1.97(b)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
 Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
 §§1.97 and 1.98.

- Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08A (1 of 2) is provided on the enclosed CD.
- No copies of the publications listed on the attached Form PTO/SB/08A (2 of 2) are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial Nos. 10/213,940, filed August 6, 2003, 09/487,737 (now U.S. Patent No. 6,429,846), 09/103,281 (now U.S. Patent No. 6,088,019), 09/253,132 (now U.S. Patent No. 6,243,078), 09/156,802 (now U.S. Patent No. 6,184,686), and/or 09/467,309 (now U.S. Patent No. 6,563,487) to which the above-identified application claims priority under 35 U.S.C. §120.
- No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98 because this application was filed after June 30, 2003.

- Publication(s) __ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to __ application serial no. __ and mailed on __.
- Enclosed is a copy of a non-English publication(s) __. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
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- Enclosed is a copy of pending patent Application Serial No. __.

This Information Disclosure Statement is filed within any one of the following time periods:

- within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- within three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in this international application;
- before the mailing date of a first office action on the merits; or
- before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Attorney Docket No. IMMR-107/03US

Serial No. 10/615,986

Page 3

Dated: August 3, 2004

Cooley Godward LLP
ATTN: Patent Group
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Reston Town Center
11951 Freedom Drive
Reston, VA 20190-5656
Tel: (703) 456-8000
Fax: (703) 456-8100

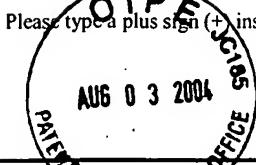
Respectfully submitted,
COOLEY GODWARD LLP

By:



Erik B. Milch
Reg. No. 42,887

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(1 of 2)

PTO/SB/08A (08-00)
Part 1 of 2

Substitution Form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/615,986
				Filing Date	July 10, 2003
				First Named Inventor	Louis B. ROSENBERG
				Group Art Unit	2182
				Examiner Name	Unassigned
Sheet	1	of	3	Attorney Docket Number	IMMR-107/03US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		6,647,145		Gay	11/11/2003
		6,639,582		Shrader	10/28/2003
		6,636,202		Ishmael et al	10/21/2003
		6,628,195		Coudor	09/30/2003
		6,610,936		Gillespie et al	08/26/2003
		6,535,201		Cooper et al	03/08/2003
		6,529,122		Magnussen et al	03/04/2003
		6,518,958		Miyajima et al	02/11/1997
		6,509,892		Cooper et al	01/21/2003
		6,487,421		Hess et al	11/26/2002
		6,473,069		Gerpehede	10/29/2002
		6,469,695		White	10/22/2002
		6,447,069		Terris et al	09/10/2002
		6,445,284		Cruz-Hernandez et al	09/03/2002
		6,429,846		Rosenberg et al.	08/06/2002
		6,414,674		Kamper et al	07/02/2002
		6,337,678		Fish	01/08/2002
		6,326,901		Gonzales	12/04/2001
		6,262,717		Donahue et al	07/17/2001
		6,243,080		Molne	06/05/2001
		6,239,790		Martinelli et al	05/29/2001
		6,140,987		Stein et al	10/31/2000
		6,118,435		Fujita et al	09/12/2000
		6,067,081		Hahlganss et al	05/23/2000
		6,008,800		Pryor	12/28/1999
		5,835,080		Beetseson et al	11/10/1998
		5,736,978		Hasser et al	04/07/1998
		5,719,561		Gonzales	02/17/1998
		5,690,582		Ulrich et al.	11/25/1997
		5,638,060		Kataoka et al	06/10/1997
		5,619,180		Massimino	04/08/1997
		5,600,777		Wang et al	02/04/1997
		5,461,711		Wang et al	10/24/1995
		5,389,849		Asano et al	02/14/1995
		5,376,948		Roberts	12/27/1994
		5,302,132		Corder	04/12/1994
		5,121,091		Fujiyama	06/09/1992
		4,926,879		Sevrain et al	05/22/1990
		4,772,205		Chlumsky	09/20/1988
		4,758,165		Tieman et al	07/19/1988
		4,334,280		McDonald	06/08/1982
		20030095105		Vaananen	05/22/2003
		20030128191		Strasser et al	07/10/2003
		20030151597		Roberts et al	08/14/2003

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

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		Number	Kind Code ³ (if known)		
		20030179190		Franzen	09/25/2003
		20030030628		Sato et al	02/13/2003
		20030016211		Woolley	01/23/2003
		20030025679		Taylor et al	02/06/2003
		20030022701		Gupta	01/30/2003
		20010035854		Rosenberg et al	11/01/2001
		20020033795		Shahonian	03/21/2002
		20030038776		Rosenberg et al	02/27/2003
		20020156807		Dieberger	10/24/2002
		20030128192		Van Os	07/10/2003
		20030048260		Matusis	03/13/2003
		20030058265		Robinson et al	03/27/2003
		20030067449		Yoshikawa et al	04/10/2003
		20030174121		Poupyrev et al	09/18/2003
		20020149570		Knowles et al	10/17/2002
		20030071795		Baldau et al	04/17/2003
		20030006892		Church	01/09/2003

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁴
		Office ¹	Number ²	Kind Code ³ (if known)			
		EP	0556999		NCR		
		WO	92/00559		Hewlett-Packard Co.		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		SCANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994			
		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992			
		NOLL, "Man-Machine Tactile," <i>SID Journal</i> , July/August 1972 Issue.			

¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

² For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁴ Applicant is to place a check mark here if English language Translation is attached.

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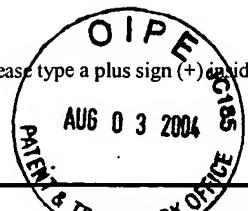
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
Sheet	3	of	3	Application Number	10/615,986
				Filing Date	July 10, 2003
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				Group Art Unit	2182
				Examiner Name	Unassigned
				Attorney Docket Number	IMMR-107/03US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.	

Examiner Signature		Date Considered	
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(2 of 2)

PTO/SB/08A (08-00)

Part 2 of 2

Substitution of 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/615,986
				Filing Date	July 10, 2003
				First Named Inventor	Louis B. ROSENBERG
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		Number	Kind Code ² (if known)		
		6,422,941		Thorner et al	07-23-2002
		6,388,655		Leung	5-14-2002
		6,373,463		Beeks	04-16-2002
		6,307,465		Kayama et al	10-23-2001
		6,219,034		Ebling et al	04-17-2001
		6,218,966		Goodwin et al	04-17-2001
		6,198,206		Saarmaa et al	03-06-2001
		6,166,723		Schena et al.	12-2000
		6,161,126		Wies et al.	12-2000
		6,160,489		Perry et al	12-12-2000
		6,147,674		Rosenberg et al.	11-2000
		6,147,422		Delson et al.	11-2000
		6,131,097		Peurach et al.	10-2000
		6,128,006		Rosenberg	10-2000
		6,125,385		Wies et al.	09-2000
		6,118,435		Fujita et al	09-12-2000
		6,111,577		Ziles et al	08-29-2000
		6,100,874		Schena, et al.	08-2000
		6,088,019		Rosenberg	06-2000
		6,088,017		Tremblay et al.	06-2000
		6,061,004		Rosenberg	05-2000
		6,037,927		Rosenberg	03-2000
		6,028,593		Rosenberg et al.	02-2000
		6,024,576		Bevirt et al.	02-2000
		6,020,876		Rosenberg et al.	02-2000
		6,005,551		Osborne et al.	12-1999
		6,004,134		Marcus et al.	12-1999
		6,001,014		Ogata	12-1999
		5,990,869		Kubica et al.	11-1999
		5,986,643		Harvill et al.	11-1999
		5,977,867		Blouin	11-02-1999
		5,973,689		Gallery	10-1999
		5,959,613		Rosenberg et al.	09-1999
		5,956,484		Rosenberg et al.	09-1999
		5,956,016		Kruenzner et al.	09-1999
		5,944,151		Jakobs et al.	08-1999
		5,929,846		Rosenberg et al.	07-1999
		5,917,906		Thronton	06-29-1999
		5,914,705		Johnson et al.	06-1999
		5,912,661		Siddiqui	06-1999
		5,897,437		Nishiumi et al.	04-1999
		5,889,670		Schuler et al.	03-1999

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

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				Group Art Unit	2182
				Examiner Name	Unassigned
Sheet	2	of	11	Attorney Docket Number	IMMR-107/03US

5,887,995	Holehan	03-30-1999
5,880,714	Rosenberg et al.	03-1999
5,877,748	Redlich	03-1999
5,844,392	Peurach et al.	12-1998
5,831,408	Jacobus et al.	11-1998
5,825,308	Rosenberg	10-1998
5,823,876	Unbehand	10-1998
5,821,921	Osborn et al.	10-1998
5,808,603	Chen	09-1998
5,808,601	Leah et al.	09-1998
5,805,165	Thorne, III et al.	09-1998
5,805,140	Rosenberg et al.	09-1998
5,802,353	Avila et al.	09-1998
5,790,108	Salcudean et al.	08-1998
5,785,630	Bobick, et al.	07-28-1998
5,784,052	Keyson	07-1998
5,781,172	Engel et al.	07-1998
5,771,037	Jackson	06-1998
5,769,640	Jacobus et al.	06-1998
5,767,839	Rosenberg	06-1998
5,766,016	Sinclair et al.	06-16-1998
5,760,764	Martinelli	06-1998
5,757,358	Osga	05-1998
5,755,577	Gillio	05-1998
5,754,023	Rosten et al.	05-1998
5,745,715	Pickover et al.	04-1998
5,742,278	Chen et al.	04-1998
5,739,811	Rosenberg et al.	04-1998
5,736,978	Hasser et al.	04-1998
5,734,373	Rosenberg et al.	03-1998
5,731,804	Rosenberg	03-1998
5,724,278	Chen et al.	03-1998
5,724,106	Autry et al.	03-1998
5,721,566	Rosenberg et al.	02-1998
5,714,978	Yamanaka	02-1998
5,709,219	Chen et al.	01-1998
5,694,013	Stewart et al.	12-1997
5,691,898	Rosenberg et al.	11-1997
5,691,747	Amano	11-1997
5,666,473	Wallace	09-1997
5,666,138	Culver	09-1997
5,656,901	Kurita	08-1997
5,643,087	Marcus et al.	07-1997
5,642,469	Hannaford et al.	06-1997
5,629,594	Jacobus et al.	05-1997
5,625,576	Massie et al.	04-1997
5,596,347	Robertson et al.	01-1997
5,591,082	Jensen et al.	01-1997
5,589,854	Tsai	12-1996
5,589,828	Armstrong	12-1996
5,587,937	Massie et al.	12-1996

Examiner Signature	Date Considered
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Sheet	3	of	11	
				Attorney Docket Number
				IMMR-107/03US

5,583,407		Yamaguchi	12-1996
5,577,981		Jarvik	11-1996
5,576,727		Rosenberg et al.	11-1996
5,575,761		Hajianpour	11-19-1996
5,565,887		McCambridge et al.	10-1996
5,547,382		Yamasaki et al.	08-20-1996
5,542,672		Meredith	08-1996
5,530,455		Gillick et al.	06-1996
5,513,100		Parker et al.	04-1996
5,512,919		Araki	04-1996
5,506,605		Paley	04-1996
5,491,477		Clark et al.	02-1996
5,473,344		Bacon et al.	12-1995
5,473,235		Lance et al.	12-1995
5,471,571		Smith et al.	11-1995
5,466,213		Hogan et al.	11-14-1995
5,459,382		Jacobus et al.	10-1995
5,457,479		Cheng	10-1995
5,451,924		Massimino et al.	09-1995
5,437,607		Taylor	08-01-1995
5,436,622		Gutman et al.	07-25-1995
5,414,337		Schuler	05-1995
5,405,152		Katanics et al.	04-1995
5,399,091		Mitsumoto	03-1995
5,398,044		Hill	03-1995
5,396,266		Brimhall	03-1995
5,389,865		Jacobus et al.	02-1995
5,381,080		Schnell et al.	01-1995
5,355,148		Anderson	10-1994
5,354,162		Burdea et al.	10-1994
5,341,459		Backes	08-1994
5,334,027		Wherlock	08-02-1994
5,313,230		Venolia et al.	05-1994
5,309,140		Everett, Jr., et al.	05-03-1994
5,299,810		Pierce et al.	04-05-1994
5,296,871		Paley	03-1994
5,286,203		Fuller et al.	02-1994
5,283,970		Aigner	02-08-1994
5,275,565		Moncrief	01-1994
5,275,174		Cook	01-04-1994
5,271,290		Fischer	12-21-1993
5,264,768		Gregory et al.	11-1993
5,240,417		Smithson et al.	08-31-1993
5,235,868		Culver	08-1993
5,223,776		Radke et al.	06-1993
5,220,260		Schuler	06-1993
5,212,473		Louis	05-18-1993
5,203,563		Loper, III	04-1993
5,197,003		Moncrief et al.	03-1993
5,193,963		McAfee et al.	03-1993
5,189,355		Larkins et al.	02-1993

Examiner Signature		Date Considered
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known
Sheet	4	of	11	
				Attorney Docket Number IMMR-107/03US

5,186,695	Mangseth et al	02-16-1993
5,186,629	Rohen	02-1993
5,185,561	Good et al.	02-1993
5,184,319	Kramer	02-1993
5,175,459	Danial et al	12-29-1992
5,165,897	Johnson	11-24-1992
5,146,566	Hollis, Jr. et al.	09-1992
5,139,261	Openiano	08-1992
5,116,180	Fung et al.	05-1992
5,107,262	Cadoz et al.	04-1992
5,107,080	Rosen	04-1992
5,103,404	McIntosh	04-1992
5,095,303	Clark et al.	03-1992
5,078,152	Bond et al.	01-07-1992
5,076,517	Ferranti et al.	12-1991
5,065,145	Purcell	11-1991
5,044,956	Behensky et al.	09-1991
5,038,089	Szakaly	08-06-1991
5,035,242	Franklin et al.	07-30-1991
5,022,407	Horch et al.	06-11-1991
5,022,384	Freels	06-11-1991
5,019,761	Kraft	05-28-1991
5,007,300	Siva	04-1991
5,004,391	Burdea	04-1991
4,983,901	Lehmer	01-1991
4,961,038	MacMinn	10-1990
4,949,119	Moncrief et al.	08-1990
4,935,728	Kley	06-1990
4,934,694	McIntosh	06-19-1990
4,930,770	Baker	06-05-1990
4,906,843	Jones et al.	03-1990
4,896,554	Culver	01-1990
4,891,764	McIntosh	01-02-1990
4,885,565	Embach	12-05-1989
4,868,549	Affinito et al.	09-1989
4,861,269	Meenen, Jr.	08-1989
4,853,874	Iwamoto et al.	08-1989
4,839,838	LaBiche et al.	06-1989
4,837,734	Ichikawa et al.	06-1989
4,823,634	Culver	04-1989
4,800,721	Cemenska et al.	01-1989
4,795,296	Jau	01-1989
4,794,392	Selinko	12-27-1988
4,794,384	Jackson	12-1998
4,782,327	Kley et al.	11-1998
4,713,007	Alban	12-15-1987
4,708,656	de Vries et al.	11-24-1987
4,706,294	Ouchida	11-1987
4,689,449	Rosen	08-1987
4,604,016	Joyce	08-1986
4,603,284	Perzley	07-1986

Examiner Signature	Date Considered
--------------------	-----------------

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	4,599,070		Hladky et al.	07-08-1986
	4,581,491		Boothroyd	04-08-1986
	4,560,983		Williams	12-1985
	4,513,235		Acklam et al.	04-23-1985
	4,484,191		Vavra	11-20-1984
	4,477,043		Repperger	10-1984
	4,464,117		Forest	08-07-1994
	4,436,188		Jones	03-1984
	4,398,889		Lam et al.	08-1983
	4,333,070		Barnes	06-01-1982
	4,262,549		Schwellenbach	04-21-1981
	4,236,325		Hall et al.	12-02-1980
	4,127,752		Lowthorp	11-28-1978
	3,923,166		Fletcher et al.	12-1975
	3,919,691		Noll	11-1975
	3,911,416		Feder	10-07-1975
	3,903,614		Diamond et al.	09-09-1975
	3,902,687		Hightower	09-02-1975
	3,875,488		Crocker et al.	04-1975
	3,623,064		Kagan	11-23-1971
	3,517,446		Corlyon et al.	06-30-1970
	3,497,668		Hirsch	02-24-1970
	3,220,121		Cutler	11-30-1965
	3,157,853		Hirsch	11-17-1964
	2,972,140		Hirsch	02-14-1961
	4,160,508		Salisbury, Jr.	07-10-1979
	2002/0149561		Fukumoto et al	10-17-2002

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁴
		Office ¹	Number ²	Kind Code ³ (if known)			
65	EP	EP 1182851	A1	Becker	02-27-2002		
66	JP	JP 01-003664		Taito Corporation	07-19-1990		
67	JP	JP 02-109714		Epoch Co. And Key-Planning Co.	01-13-1992		
68	JP	JP 04-007371		Taito Corporation	08-03-1993		
69	JP	JP 05-193862		Sega Corporation	01-27-1995		
70	JP	JP 2001-350592	A	Ryo et al	12-21-2001		
71	WO	WO 02/12991	A1	Fukumoto et al	02-14-2002		
72	WO	WO 02/27645	A1	Franzen	04-04-2002		
73	WO	WO 02/31807	A1	Hwang et al	04-18-2002		
74	WO	WO 97/18546	A1	Gerpheide	05-22-1997		
75	EP	0 349 086		Stork Kwant B.V.	01-03-1990		
	JP	2002-259059		Motoyama et al.	09-13-2002		

¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).² For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁴ Applicant is to place a check mark here if English language Translation is attached.

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		EP	0085518A1		01-1983	
		EP	0265011		04-1988	
		EP	0607580A1		07-1994	
		EP	062664A2		11-1994	
		EP	875819		04-1998	
		WO	92/00559		01-1992	
		WO	95/20788		08-1995	
		WO	95/32459		11-1995	
		WO	96/28777		09-1996	
		WO	97/12357		04-1997	
		WO	97/21160		06-1997	
		WO	97/31333		08-1997	
		WO	98/08159		02-1998	
		WO	98/24183		06-1998	
		WO	98/58323		12-1998	
		WO	2343499A		12-1999	
		WO	00/03319		01-2000	
		WO	00/21071		04-2000	
		EP	0 626 634 A2		11-1994	
		WO	97/20305		06-1997	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	117	"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).	
	76	"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994.	
		"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).	
		Adachi et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," 1994, Suzuki Motor Corp., pp. 1-7.	
	77	Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, <i>Advances in Robotics</i> , pp. 1-12, 1992	
	78	Adelstein, "A Virtual Environment System For The Study of Human Arm Tremor," <i>Ph.D. Dissertation</i> , Dept. of Mechanical Engineering, MIT, June 1989, archived 3/13/90	
		Adelstein, et al., "A High Performance Two-Degree-of-Freedom Kinesthetic Interface," MIT, 1992, pp. 108-112.	
		Akamatsu et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," 1994, Presence vol. 3, pp. 73-80.	
		Atkinson et al., "Computing with Feeling," Comput. & Graphics, vol. 2, 1977, pp. 97-103.	

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--------------------	-----------------

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Sheet	7	of	11	Attorney Docket Number	IMMR-107/03US

	79	Aukstakalnis et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.	
	80	Baigrie, "Electric Control Loading – A Low Cost, High Performance Alternative," <i>Proceedings of Interservice/Industry Training Systems Conference</i> , pp. 247-254, November 6-8, 1990	
		Batter et al., "Grope-1: A computer Display to the sense of Feel," Proc IFIP Congress, 1971, pp. 759-763.	
	81	Bejczy et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," <i>SOAR '89 Workshop, JSC</i> , Houston, TX, July 25-27, 1989	
	82	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators," <i>Proceedings Of Fourth CISM-IFTOMM</i> , Sep. 8-12, 1981	
	83	Bejczy et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," <i>International Computer Technology Conference, The American Society of Mechanical Engineers</i> , San Francisco, CA, August 12-15, 1980	
	84	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," <i>Science</i> , Vol. 208, No. 4450, pp. 1327-1335, 1980	
	85	Bejczy, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987	
	86	Bliss, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.	
	87	Brooks et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," <i>JPL Publication 85-11</i> , NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985	
		Brooks, Jr. et al., "Project GROPE, Haptic Displays for Scientific Visualization," <i>Computer Graphics</i> , vol. 24, #4, 1990, pp. 177-184.	
	88	Burdea et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," <i>1993 IEEE International Conference on Robotics and Automation</i> , pp. 25-44, 05/02/1993	
		Buttolo et al., "Pen-based force Display for Precision Manipulation in Virtual Environments," <i>IEEE 0-8186-7084-3</i> , 1995, pp. 217-224.	
	89	Cadler, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, June 23, 1983.	
	90	Caldwell et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993	
		Christophe Ramstein, "Combining Haptic & Braille Technologies: Design Issues and Pilot Study," 1996, Siggraph pp. 37-44.	
		Colgate et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces," Northwestern University, IL, 1993., pp. 1-8.	
		Dennerlein et al., "Vibrotactile Feedback for Industrial Telemanipulators," 1997, Sixth Annual Symp. On Haptic Interfaces for Virtual Env. And Teleoperator Systems, ASME IMECE, Dallas, pp. 1-7.	
		Dennerlein, Jack et al., "Commercialization of Vibrotactile Feedback for Telemanipulation and Virtual Environments," 1997, Phase I Final Report for ONR Contract N00014-96-C-0325 (not published or publicly available).	
	91	Eberhardt et al., "Including Dynamic Haptic Perception by The Hand: System Description and Some Results," <i>DSC-Vo. 55-1, Dynamic Systems and Control: Volume 1</i> , ASME 1994.	

Examiner Signature	Date Considered
--------------------	-----------------

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	92	Eberhardt et al. , "OMAR - A Haptic display for speech perception by deaf and deaf-blind individuals," <i>IEEE Virtual Reality Annual International Symposium</i> , Seattle, WA, Sep. 18-22, 1993	
	93	Ellis et al. , Design & Evaluation of a High-Performance Prototype Planar Haptic Interface, Dec. 1993, <i>Advances in Robotics</i> , 55-64.	
	94	Fischer, et al. , "Specification and Design of Input Devices for Teleoperation," <i>IEEE CH2876</i> , Jan. 1990, pp. 540-545.	
	95	Fukumoto , "Active Click: Tactile Feedback for Touch Panels," <i>ACM CHI2001 Extended Abstracts</i> , pp. 121-122, April 2001.	
	96	Gobel et al. , "Tactile Feedback Applied to Computer Mice," <i>International Journal of Human-Computer Interaction</i> , Vol. 7, No. 1, pp. 1-24, 1995.	
	97	Gotow et al. , "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," <i>WA11-11:00</i> , pp. 332-337	
	98	Gotow et al. , "Perception of Mechanical Properties at the Man--Machine Interface," <i>IEEE CH2503-1</i> , 1987, pp. 688-690.	
	99	Hannaford et al. , "Force-Feedback Cursor Control," <i>NASA Tech Briefs</i> , vol. 13, No. 11, 1989, pp. 1-7.	
	100	Hannaford et al. , "Performance Evaluation of a 6-Axis Generalized Force-Reflecting Teleoperator," <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , vol. 21, No. 3, 1991, pp. 621-623, 631-633.	
	101	Hasser, C. et al. , "Tactile Feedback with Adaptive Controller for a Force-Reflecting Haptic Display," Parts 1 and 2, <i>IEEE 0-7803-3131-1</i> , 1996, pp. 526-533.	
	102	Hasser, C. , "Tactile Feedback for a Force-Reflecting Haptic Display," School of Eng., Univ. of Dayton, Dayton, OH, 1995, pp. 1-98.	
	103	Hirota et al. , "Development of Surface Display," <i>IEEE 0-7803-1363-1</i> , 1993, pp. 256-262.	
	104	Howe et al. , "Task Performance w/ a dexterous Teleoperated Hand System," <i>Proc. of SPIE</i> , vol. 1833, 1992, pp. 1-9.	
	105	Howe , "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," <i>Proceedings of the 1992 IEEE International Conference on Robotics and Automation</i> , Nice, France, May 1992	
	106	IBM Technical Disclosure Bulletin , "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990	
	107	Iwata , "Pen-based Haptic Virtual Environment," <i>0-7803-1363-1/93 IEEE</i> , pp. 287-292, 1993	
	108	Iwata, Hiroo , "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," <i>Computer Graphics</i> , vol. 24, No. 4, Aug. 1990, pp. 165-170.	
	109	Jacobsen et al. , "High Performance, Dexterous Telerobotic Manipulator With Force Reflection," <i>Intervention/ROV '91 Conference & Exposition</i> , Hollywood, Florida, May 21-23, 1991	
	110	Johnson , "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory <i>AAMRL-TR-90-039</i> , August, 1990.	
	111	Jones et al. , "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); <i>Experimental Brain Research</i> , Vol. 79, No. 1, pp. 150-156, 1990	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

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	102	Kaczmarek et al., "Tactile Displays," Virtual Environment Technologies.	
		Kelley et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," Oct. 19, 1993 University of British Columbia pp. 1-27.	
		Kelley et al., "On the Development of a Force-Feedback Mouse and its Integration into a graphical user Interface," Nov. 1994, Engineering Congress and Exhibition, pp. 1-8.	
		Kilpatrick et al., "The Use of Kinesthetic Supplement in an Interactive Graphics System," University of North Carolina, 1976, pp. 1-172.	
	103	Kontarinis et al., "Display of High-Frequency Tactile Information to Teleoperators," <i>Telemanipulator Technology and Space Telerobotics</i> , Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993	
	104	Kontarinis et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, 1995.	
		Kotoku, "A Predictive Display with Force Feedback and its Application to Remote Manipulation System with Transmission Time Delay," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992.	
		Kotoku, et al., "Environment Modeling for the Interactive Display (EMID) Used in Telerobotic Systems," IEEE/RSJ Int'l Workshop on Intelligent Robots and Systems, Nov. 1991, pp. 999-1004.	
	105	Lake, "Cyberman from Logitech," GameBytes, 1994.	
	106	Marcus, "Touch Feedback in Surgery," <i>Proceedings of Virtual Reality and Medicine The Cutting Edge</i> , Sep. 8-11, 1994	
	107	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," <i>JPL 1988, JPL D-5172</i>	
		Millman et al., "Design of a 4 Degree of Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1493.	
		Minsky et al., "Feeling & Seeing:Issues in Force Display," ACM089791-351-5, 1990, pp. 235-242, 270.	
	108	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," <i>Ph.D. Dissertation</i> , MIT, June 1995, archived 7/6/95	
		Munch et al., "Intelligent Control for Haptic Displays," Eurographics '96, vol. 15, No. 3, 1996, pp. 217-226.	
	109	Ouhyoung et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," <i>IEEE Transactions on Consumer Electronics</i> , Vol. 41, No. 3, August 1995	
		Ouh-Young et al., "Creating an Illusion of Feel: Control Issues in Force Display," Univ. of N. Carolina, 1989, pp. I-14.	
	110	Ouhyoung et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.	
		Ouh-young, et al., Using a Manipulator for Force Display in Molecular Docking, IEEE CH2555, 1988, pp. 1824-1829.	
		Patrick et al., "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," Master of Science Thesis, MIT Nov. 8, 1990.	

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--------------------	-----------------

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		Payette et al., "Evaluation of a Force Feedback (Haptic) Computer Printing Device in Zero Gravity," Oct. 17, 1996, ASME Dynamics Systems, vol. 58 pp. 547-553.				
	113	Pimentel et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.				
	114	Rabinowitz et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contractor area," <i>Journal of The Acoustical Society of America</i> , Vol. 82, No. 4, October 1987				
		Ramstein et al., "The Pantograph: A Large Workspace Haptic Device for a Multimodal Human--Computer Interaction," Computer--Human Interaction, CHI 1994, pp. 1-3.				
		Ramstein, Christopher, Combining Haptic & Braille Technologies: Design Issues and Pilot Study, 96, Siggraph pp. 37-44.				
		Rosenberg et al., "A Force Feedback Programming Primer," Immersion Corp., 1997, pp. 1-176.				
		Rosenberg et al., "Commercially Viable force feedback Controller for Individuals with Neuromotor Disabilities," Armstrong Laboratory, AL/CF-TR-1997-0016, 1996, pp. 1-33.				
		Rosenberg et al., "Perceptual Decomposition of Virtual Haptic Surfaces," Proc. IEEE Symposium on Research Frontiers in Virtual Reality, 1993, pp. 1-8.				
		Rosenberg et al., "The use of force feedback to enhance graphical user interfaces," Stereoscopic Displays & Virtual Reality Systems, 1996, pp. 243-248.				
		Rosenberg, "Perceptual Design of a Virtual Rigid Surface Contact," Armstrong Laboratory AL/CF-TR-1995-0029, 1993, pp. 1-45.				
		Rosenberg, "Virtual Haptic Overlays Enhance Performance in Telepresence Tasks," Dept. of Mech. Eng., Stanford Univ., 1994.				
		Rosenberg, et al., "The Use of Force Feedback to Enhance Graphical User Interfaces," Proc. SPIE 2653, 1996, pp. 243-248.				
		Rosenberg, L., "Virtual fixtures as tools to enhance operator performance in telepresence environments," SPIE Manipulator Technology, 1993, pp. 1-12.				
	115	Russo, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, <i>Advances in Robotics</i> , pp. 63-70, ASME 1992				
	116	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," <i>MIT Libraries Archives</i> pp. 1-131, May 1990, archived 8/14/90				
		Schmult et al., "Application Areas for a Force-Feedback Joystick," 1993, Advances in Robotics, vol. 49, pp. 47-54.				
	118	Shimoga, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," <i>Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration</i> , Rensselaer Polytechnic Institute, Sep. 30- Oct. 1, 1992				
	119	SMK Corporation, "Force Feedback Type Optical Touch Panel Developed," SMK Corporation Website, October 30, 2002.				
	120	SMK Corporation, "Multi-Functional Touch Panel, Force-Feedback Type, Developed: A Touch Panel Providing a Clicking Feeling," http://www.smk.co.jp/whatsnew_e/628csc_e.html , September 30, 2002.				
	120	Snow et al., 'Model-X Force-Reflecting-Hand-Controller,' NT Control No. NPO-17851; JPL Case No. 7348, pp. 1-4 with 45 pages of attachments, 06/15/1989				

Examiner Signature		Date Considered
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				Attorney Docket Number	IMMR-107/03US

	122	Stanley et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, <i>Advances in Robotics</i> , pp. 55-61, ASME 1992	
		Su et al., "The Virtual Panel Architecture: A 3D Gesture Framework," University of Maryland, pp. 387-393.	
	123	Tadros, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators," <i>MIT Archive</i> , pp. 1-88, February 1990, archived 8/13/90	
		Tan, et al., "Manual Resolution of Compliance When Work and Force Cues are Minimized," DSC-vol. 49, <i>Advances in Robotics, Mechatronics, and Haptic Interfaces</i> , ASME 1993, pp. 99-104.	
	124	Terry et al., "Tactile Feedback In A Computer Mouse," <i>Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire</i> , March 10-11, 1988	
		Wiker et al., "Development of Tactile Mice for Blind Access to Computers, Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," 1991, Human Factors Society Mtg., pp. 708-712.	
	125	Wiker, "Teletouch Display Development: Phase I Report 1230, Naval Ocean Systems Center, San Diego, April 17, 1989.	
		Winey III, "Computer Stimulated Visual & Tactile Feedback as an Aid to Manipulator & Vehicle Control," MIT, 1981, pp. 1-79.	
		Yamakita, et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992, pp. 1103-1110.	
		Yokokohji, et al., "What You Can See is What You Can Feel--Development of a Visual/Haptic Interface to Virtual Environment," Proc. VRAIS 1996.	
		Yokokoji et al., "What you can see is what you can feel," IEEE 0-8186-7295-1, 1996, pp. 46-54.	

¹ Unique citation designation number.² Applicant is to place a check mark here if English language Translation attached.

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.